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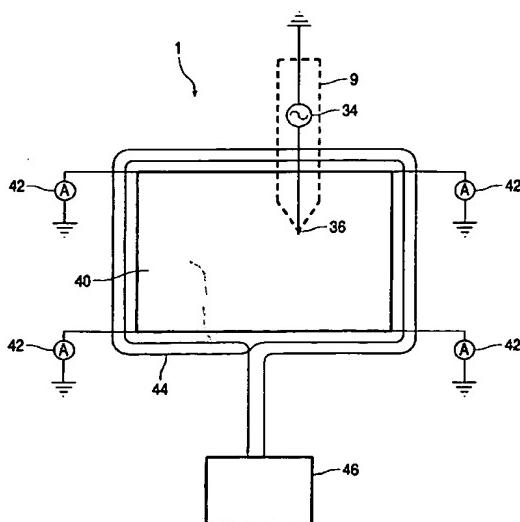
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(54) Title: INPUT SYSTEM



(57) Abstract: A user input system (1), comprising a coil (44) for generating an alternating magnetic field, a cordless pen (9), and a capacitive current measuring arrangement or an electric field sensing arrangement. The cordless pen (9) comprises a resonant circuit (34), a conductive housing (28) and a conducting tip (36). The alternating magnetic field induces an alternating voltage in the resonant circuit (34), which is coupled to the conducting tip (36). The capacitive current measuring arrangement comprises a resistive sheet (40) and current measuring means (42) arranged to measure a capacitive current flowing from the conducting tip (36) to the resistive sheet (40). The electric field sensing arrangement comprises an electric field sensing reception electrode (47) and current sensing circuitry (48) for determining a current excited in the electric field sensing reception electrode (47) by an electric field generated by the conducting tip (36). In each case the currents are sensed at plural locations and the differing magnitudes compared to determine a position of the conducting tip (36) relative to the plural locations. The system may also be adapted to sense a user's finger (8). The user input system (1) may be incorporated in a display device, for example an active matrix liquid crystal display device (4).

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## INTERNATIONAL SEARCH REPORT

National Application No.  
IB 03/02584

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/33244 A (BRACE STEVEN ROLAND ; CAUWOOD PETER DAVID (GB); COLLINS IAN PETER (GB)) 8 June 2000 (2000-06-08)  page 11, line 33 – page 15, line 25; figures 3,7a	1,4,9, 20,21, 24,25, 33,35
Y	----- -----	3,10,11, 13, 15–17, 26,29, 31,34
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 365 461 A (STEIN ROBERT A ET AL) 15 November 1994 (1994-11-15) cited in the application  figures 1,2a,2b,5c column 1, line 36 - line 38 column 3, line 41 - column 5, line 1 -----	3,10,11, 13, 15-17, 26,29, 31,34
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